Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1. (Original) A peptide of a size comprised between 5 and 40 amino acids, originating from a cytokine, characterized in that at least one of its amino acids comprises at least one of its atoms separated by a distance d of less than 5 angströms from an atom of the receptor corresponding to said cytokine, the spacing d being evaluated on the basis of structural data, with the exception
- of the peptides comprised between the 2nd and 3rd cysteine of h RANTES, MIP 1α and MIP 1β , and
- of the peptides comprised between amino acids 123 and 140 of IFN $\alpha\,.$
- (Currently Amended) A peptide according to claim
 characterized in that two of its consecutive amino acids
 comprise at least one of their atoms separated by a distance d

of less than 5 angströms from an atom of the receptor corresponding to said cytokine.

- 3. (Currently Amended) A peptide according to one of claims 1 and 2 claim 1, characterized in that it is chosen from the fragments of the following cytokines: TGF β , IL1 β , VEGF, TNF α , IFN α and γ , IL 4, 5, 6, 10, 12, 13, 15, 18, 23, IP10, MIP 1α and 1β , and Rantes.
- 4. (Currently Amended) A peptide according to one of claims 1 to 3 claim 1, characterized in that it is chosen from the fragments of the following cytokines: TGF β , IL1 β , VEGF, TNF α , IFN γ , IL 4, 5, 6, 10, 12, 13, 15, 18, 23.
- 5. (Currently Amended) A peptide according to—one of claims 1 to 4 claim 1, characterized in that d is less than 4 angströms.
- 6. (Currently Amended) A peptide according to one of claims 1 to 5 claim 1 characterized in that 3 or 4 consecutive amino acids of the cytokine peptide correspond to this same spacing criterion.

- 7. (Currently Amended) A peptide according to one of claims 1 to 6 claim 1 characterized in that it comprises less than 30 amino acids.
- 8. (Original) A peptide as defined in claim 1, chosen from or originating from those the names of which follow:
 - hIL1β (Human Interleukin 1 beta) 1-APVRSLNCTL-10 (SEQ ID No. 1) 29-LHLQGQDMEQQ-39 (SEQ ID No. 2) 123-STSQAENMPV-132 (SEQ ID No. 3) - hvEGF (Human vascular Endothelial Growth Factor) 73-IMRIKPHQGQHIGEMS-88 (SEQ ID No. 4) - hTNFα (Human Tumor Necrosis Factor alpha) 20-PQAEGQLQWLNRRANALLANGVELRDNQLVVPSEG-54 (SEQ ID No. 5) 80-ISRIAVSYQTKVNLLS-95 (SEQ ID No. 6) 124-FQLEKGDRLSAEINR-138 (SEQ ID No. 7) - hIFNy (Human Interferon gamma) 1-MQDPYVKEAENLKKYFNAGHSDVADNGTLFLGILKN-36 (SEQ ID No. 8) 118-MAELSPAAKTGKRKRS-133 (SEQ ID No. 9) - hIL10 (Human Interleukin 10) 20-PNMLRDLRDAFSRVKTFFQMKDQLDNLLLKE-50 (SEQ ID No. 10)

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- hIL4 (Human Interleukin 4)
    5-ITLQEIIKTLNSL-17 (SEQ ID No. 11)
    70-AQQFHRHKQLIRFLKRLDRNLWGLAG-95 (SEQ ID No. 12)
- hIL12p40 (Human Interleukin 12 under unite p40)
    80-LLLHKKEDGIWSTDILKDQKEPKNKTFLRCE-110
    (SEQ ID No. 13)
    135-KSSRGSSDPQG-145 (SEQ ID No. 14)
- hIL18 (Human Interleukin 18)
    1-YFGKLESKLSVIRNLNDQVLFIDQGNRPLFEDMTD-35
    (SEQ ID No. 15)
    68-CEKISTLSCEN-78 (SEQ ID No. 16)
    141-EDELGDRSIMFTVQNED-157 (SEQ ID No. 17)
- hIP10 (Human Interferon gamma inducible protein)
     39-VEIIATMKKKGEKRCLNPESKA-60 (SEQ ID No. 18)
- hIL5
        (Human Interleukin 5)
    1-IPTSALVKETLALLSTHRTLLIANET-26 (SEQ ID No. 19)
    96-LQEFLGVMNTEWI-108 (SEQ ID No. 20)
- hTGF\beta2 (Human Transforming Growth Factor beta type 2)
     25-KRDLGWKWIHE-35 (SEQ ID No. 21)
     87-TILYYIGKTPKIEQ -100 (SEQ ID No. 22)
- hIL15 (Human Interleukin 15)
     1-ANWVNVISDLKKI-13 (SEQ ID No. 23)
     74-SSNGNVTESGCKECEELEKKNIKEFLQSFVHIVQMF-111
     (SEQ ID No. 24)
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- hIL6 (Human Inlerleukin 6) 28-KQIRYILDGISA-39 (SEQ ID No. 25) 114-RAVQMSTKVLIQFLQKKAKNLDAITTPDPTTNASLL-149 (SEQ ID No. 26) - hMIP1α (Human Macrophage Inflammatory Protein alpha) 51-ADPSEEWVQKYVSDLELSA -69 (SEO ID No. 27) - hMIP1β (Human Macrophage Inflammatory Protein beta) 52-ADPSESWVQEYVYDLELN-69 (SEQ ID No. 28) - hIL13 (Human Interleukin 13) 8-TALRELIEEL-17 (SEQ ID No. 29) 57-CSAIEKTQRMLSGFCPHKVSAGQFSS-82 (SEQ ID No. 30) - hIL23 (Human Interleukin 23) 52 GHMDLREEGDEETT 65 (SEQ ID No. 31) 115 LLPDSPVGQLHASLLGLSQ 133 (SEQ ID No. 32) 160 LLRFKILRSLQAFVAVAARV 179 (SEQ ID No. 33) - hRANTES (Human Regulated upon Activation Normal Tcell expressed)

51-ANPEKKWVREYINSLEMS-68 (SEQ ID No. 34)

-hIFNα (Human Interferon alpha)

12-RRTLMLLAQMRK-23 (SEQ ID No. 35)

95-LEACVIQGVGVTETPLMKEDSILAVRK-121 (SEQ ID No. 36)

or a fragment of said peptides.

- 9. (Currently Amended) A peptide derivative as defined in one of claims 1 to 8 claim 1 by deletion, substitution, addition, cyclization, stereochemical modification (use of D series amino acids), or functionalization (such as acylation) of one or more amino acids of said peptide.
- 10. (Currently Amended) An immunogenic compound characterized in that it comprises a peptide or peptide derivative as defined in one of claims 1 to 9 claim 1, it being understood that it does not comprise other epitopes of said cytokine and in that it is capable of generating in a subject antibodies recognizing the native cytokine.
- 11. (Currently Amended) A peptide or peptide derivative or immunogenic compound as defined in—one of claims

 1 to 10 claim 1 or comprised between amino acids 123 and 140 of

IFN α , for its use in a method of therapeutic treatment of the human or animal body.

- treatment or prevention of diseases linked to an excess or to the presence of cytokines, comprising administering a peptide or peptide derivative or immunogenic compound as defined in—one of claims 1 to 10 claim 1 or comprised between amino acids 123 and 140 of IFN α , for the preparation of a curative or preventative medicament intended for the treatment or prevention of the diseases linked to an excess or to the presence of cytokines.
- 13. (Currently Amended) Use of A method for the treatment of an auto-immune disease, comprising administering a peptide or peptide derivative or immunogenic compound as defined in one of claims 1 to 10 claim 1 or comprised between amino acids 123 and 140 of IFN α , for the preparation of a curative or preventative medicament intended for the treatment of an auto-immune disease.
- 14. (Currently Amended) A pharmaceutical composition which contains at least one peptide or peptide derivative or immunogenic compound as defined in one of claims 1 to 10 claim 1

or comprised between amino acids 123 and 140 of IFN $\alpha\text{,}$ as active ingredient.